

Practice these skills. Write answers with positive exponents only. Be sure your answers are in simplified form.

1. Multiply.

$$8x^3(4x^2 + 3x - 4)$$

2. Simplify.

$$\frac{6(ab^3c^2)^3}{-3a^{-5}bc^{-2}}$$

3. We say that the number .000 000 35 is equal to 3.5×10^{-7} in scientific notation. Explain this by writing the number as a division problem. Use the value (decimal form) of the power of 10 in your answer, as opposed to leaving it in exponent form.